

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Appln. No: 10/524,550
Applicant: William Patrick Hems, et al.
Filed: Herewith
Title: NITROGEN-CONTACTING LIGANDS
TC/A.U.: 1614
Examiner:

INFORMATION DISCLOSURE STATEMENT

Mail Stop PCT
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

Pursuant to 37 C.F.R. §§ 1.97 and 1.98 and to the duty of disclosure set forth in 37 C.F.R. § 1.56, the Examiner in charge of the above-identified application is requested to consider and make of record the references listed on the PTO/SB/08A and PTO/SB/08B forms submitted herewith. A copy of each of the listed references is enclosed.

Although the information submitted herewith may be "material" to the Examiner's consideration of the subject application, this submission is not intended to constitute an admission that such information is "prior art" as to the claimed invention.

In accordance with 37 C.F.R. § 1.97(g), the filing of this Information Disclosure Statement shall not be construed to mean that a search has been made.

International Publication No. WO 01/44153 is not in the English language, but this reference was cited by a foreign patent office in a counterpart foreign application. A copy of this English language search report, indicating the degree of relevance determined by the foreign patent office is submitted herewith. MPEP Section 609A(3), second paragraph. Also, an English-language equivalent of this publication, namely, U.S. Publication No. 2003/0097025, is enclosed.

This Information Disclosure Statement is being filed along with the response to the Notification of Missing Requirements in this application. Therefore, no fee or statement is required. 37 C.F.R. § 1.97(b).

Respectfully submitted,



Christopher R. Lewis, Reg. No. 36,201
Attorney for Applicants

CRL/lrb

Enclosures: Forms PTO/SB/08A and PTO/SB/08B
Copy of eighteen (18) references
Copy of International Search Report

Dated: August 15, 2005

P.O. Box 980
Valley Forge, PA 19482-0980
(610) 407-0700

The Commissioner for Patents is hereby
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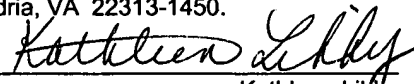
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Kathleen Libby

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| Substitute for Form 1449A/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(Use as many sheets as necessary)</i> | Complete if Known | |
| | Application Number | 10/524,550 |
| | Filing Date | Herewith |
| | First Named Inventor | William Patrick Hems |
| | Art Unit | |
| | Examiner Name | |
| SHEET 1 of 3 | Attorney Docket No. | JMYS-122US |

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| FOREIGN PATENT DOCUMENTS | | | | | | |
|--------------------------|--------------------------|---|----------------------------------|---|--|--------------------------|
| Examiner Initials* | Cite No. ¹ | Foreign Patent Document | Publication Date (MM-DD-YYYY) | Name of Patentee or Applicant of Cited Document | Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear | T ⁶ |
| | | Country Code ³ - Number ⁴ - Kind Code ⁵ (If known) | | | | |
| | 2 | WO-02/066159-A1 | 08-29-2002 | Imperial Chemical Industries PLC | | <input type="checkbox"/> |
| | 3 | WO-01/44153 | 06-21-2001 | Rhodia Polyamide Intermediates | | <input type="checkbox"/> |
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²See Kind Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04.

³Enter Office that issued the document, by the two-letter code (WIPO Standard St.3).

*For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document.

⁵Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible.

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**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

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| Application Number | 10/524,550 |
| Filing Date | Herewith |
| First Named Inventor | William Patrick Hems |
| Art Unit | |
| Examiner Name | |
| Attorney Docket No. | JMYS-122US |

SHEET 2 of 3**NON-PATENT LITERATURE DOCUMENTS**

| Examiner Initials* | Cite No. ¹ | Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published | T ² |
|--------------------|-----------------------|---|--------------------------|
| | 4 | FABIENNE FACHE et al., "Nitrogen-Containing Ligands for Asymmetric Homogeneous and Heterogeneous Catalysis," <i>Chem. Rev.</i> , 2000, Vol. 100, pp. 2159-2231. | <input type="checkbox"/> |
| | 5 | CHRISTIAN BUBERT et al., "Synthesis of water-soluble aminosulfonamide ligands and their application in enantioselective transfer hydrogenation," <i>Tetrahedron Letters</i> , Vol. 42, 2000, pp. 4037-4039. | <input type="checkbox"/> |
| | 6 | DANIEL J. BAYSTON et al., "Synthesis and evaluation of a chiral heterogeneous transfer hydrogenation catalyst," <i>Tetrahedron: Asymmetry</i> , Vol. 9, 1998, pp. 2015-2018. | <input type="checkbox"/> |
| | 7 | R. TER HALLE et al., "Heterogeneous Enantioselective Catalytic Reduction of Ketones," <i>Synlett</i> , November 1997, pp. 1257-1258. | <input type="checkbox"/> |
| | 8 | CHOONG EUI SONG et al., "Heterogeneous asymmetric epoxidation of alkenes catalysed by a polymer-bound (pyrrolidine salen)manganese(III) complex," <i>Chemical Communications</i> , No. 7, 2000, pp. 615-616. | <input type="checkbox"/> |
| | 9 | FRANCA BIGI et al., "Heterogeneous enantioselective epoxidation of olefins catalysed by unsymmetrical (salen)Mn(III) complexes supported on amorphous or MCM-41 silica through a new triazine-based linker," <i>Chemical Communications</i> , No. 7, 2002, pp. 716-717. | <input type="checkbox"/> |
| | 10 | D. ALLEN et al., "Polymer-Supported Chiral Co(Salen) Complexes: Synthetic Applications and Mechanic Investigations in the Hydrolytic Kinetic Resolution of Terminal Epoxides," <i>J. Am. Chem. Soc.</i> , 1999, Vol. 121, pp. 4147-4154. | <input type="checkbox"/> |
| | 12 | AUGUSTIN ADIMA et al., "Chiral organic-inorganic solids as enantioselective catalytic materials," <i>J. Mater. Chem.</i> , 1997, Vol. 7, No. 12, pp. 2331-2333. | <input type="checkbox"/> |
| | 13 | A. FERRAND et al., "Hydrophilic diamine ligands for catalytic asymmetric hydrogenation of C=O bonds," <i>Tetrahedron: Asymmetry</i> , Vol. 13, 2002, pp. 1379-1384. | <input type="checkbox"/> |
| | 14 | WALTER S. IDE et al., <i>Organic Reactions</i> , Vol. IV (Wiley, New York, US, 1948), Chapter 5: The Synthesis of Benzoin, pp. 269-304. | <input type="checkbox"/> |
| | 15 | Abstract: TING-YOU LI et al., "Studies on the stereoselectivity of pinacol coupling reaction mediated by TiCl ₄ -MG," <i>Gaodeng Jiaoyu Chubanshe</i> , 2000, Vol. 21, No. 9, pp. 1391-1394. | <input type="checkbox"/> |
| | 16 | Abstract: HANS JOERG SCHNEIDER et al., "1,2 - diaminoethane derivatives as scissors shaped allosteric receptors," <i>Journal of the Chemical Society, Chemical Communications</i> , Vol. 6, 1992, pp. 490-491. | <input type="checkbox"/> |
| | 17 | Abstract: CEMIL OGRETIR et al., "Reaction of 3,4-diformyl-2,5-dimethylpyrrole with 1,2-(substituted) diphenyl - 1,2 - diaminoethanes," <i>Turkish Journal of Chemistry</i> , Vol. 22, No. 2, pp. 137-142. | <input type="checkbox"/> |

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| Examiner Signature | | Date Considered | |
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| Application Number | 10/524,550 |
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| First Named Inventor | William Patrick Hems |
| Art Unit | |
| Examiner Name | |
| Attorney Docket No. | JMYS-122US |

SHEET 3 of 3

NON-PATENT LITERATURE DOCUMENTS

| Examiner Initials* | Cite No. ¹ | Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published | T ² |
|-----------------------|--------------------------|--|--------------------------|
| | 18 | JOHANN KARL et al., "Ring-Substituted [1,2-Bis(4-hydroxyphenyl)ethylenediamine]dichloroplatinum(II) Complexes: Compounds with a Selective Effect on the Hormone Dependent Mammary Carcinoma," <i>J. Med. Chem.</i> , Vol. 31, 1988, pp. 72-83. | <input type="checkbox"/> |
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